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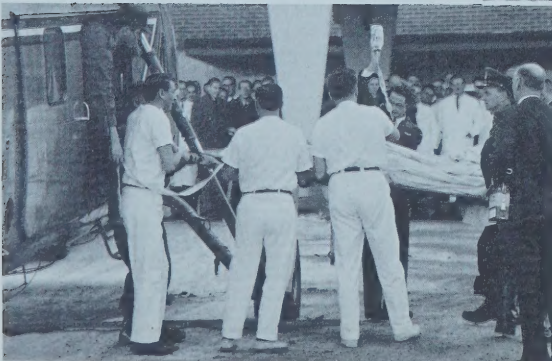
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ANNUAL REPORT

UNIVERSITY OF ALBERTA HOSPITAL-EDMONTON

In its fifty years of service to its community, the University Hospital has participated in the tremendous growth of the City of Edmonton. From an eighty-five-bed hospital in a city of less than thirty thousand people, it has grown to an eleven-hundred-bed institution in a modern metropolis of four hundred thousand. In its relatively primitive infancy its healing arts were almost entirely produced by the heads and hands—and hearts—of dedicated doctors and nurses. There wasn't even an x-ray machine available during its first five years of service. Now the treatment team has expanded to over a thousand professional and technical personnel aided in their work by the latest in electronic equipment.

In its early years it was not uncommon for patients and staff to arrive in horse-drawn wagons and sleighs—now some of them arrive at the doors of the Emergency Department in helicopters. It is the hope of the Administration and Staff that the University Hospital will keep abreast of the changing times and continue to provide outstanding service to this community and the Province of Alberta.

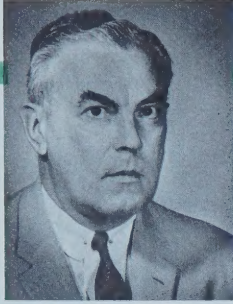




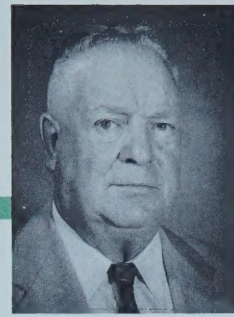
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ANNUAL REPORT

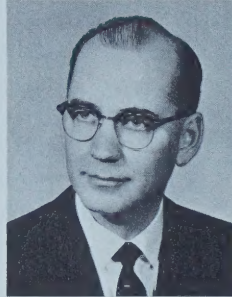
FOR THE YEAR ENDING DECEMBER 31 - 1964



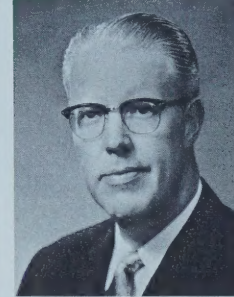
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Chairman



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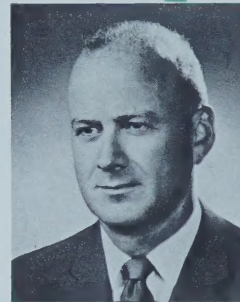
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Dean of Medicine



E. A. D. McCUAIG



K. J. HAWKINS

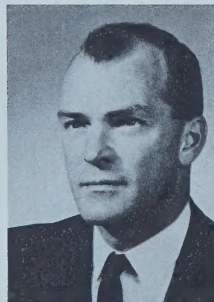


G. K. WYNN

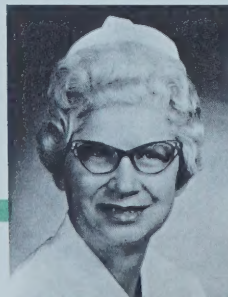
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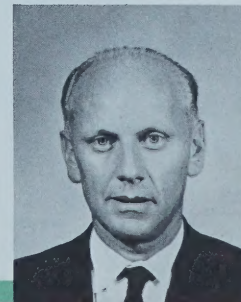


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Executive Director



MISS M. G. PURCELL
Director of Nursing

UNIVERSITY HOSPITAL ADMINISTRATIVE COMMITTEE



DR. B. SNELL
Medical Superintendent

REPORT OF THE EXECUTIVE DIRECTOR

When we look back on the year 1964 in years to come, it might well be remembered as the year in which the Medical Centre concept first became a reality in Alberta. For a number of years there has been a trend in university centres in North America to co-ordinate the medical school and the major teaching hospital into a complex in which students in medicine, nursing, and the health service technologies are clinically orientated throughout their undergraduate careers. While some forward-looking people on the Faculty of Medicine and in the University Hospital have attempted to stimulate interest in such a development here, it was not until 1964 that any impression was made on those who control the destiny of the two institutions. During the year under review several decisions were made that could well set the pattern that will result in an outstanding medical centre for the Province on the Edmonton Campus of the University of Alberta.

As the year started, the stalemate that had existed in the plans for renovation and development in the hospital persisted. Several large, potential patient areas remained vacant, as they had for the previous eighteen months, and a shortage of beds on a number of busy services created frustrations for members of the medical and administrative staffs, as well as for the Board of Trustees. However, efforts to obtain funds for the programs that had been developed continued, and early in 1964 it became evident that they would eventually be successful.

Early in the year meetings were held between representatives of the University Hospital Board, the Administration, the Minister of Health, and the Cabinet Sub-committee on Hospitals. There appeared to be general agreement that the full potential of this hospital should be developed, and plans were discussed in detail with the Executive Director of the Hospitals Division. Through these discussions a plan was developed for the continuation of the renovation program in the ward areas of the hospital, and for the development of a large, multi-purpose, teaching auditorium. It was also agreed that preliminary steps should be taken in the planning of a modern food service development to adequately serve the patients and staff.

Final decisions were made early in March, and it was agreed that the 1964 and 1965 renovation programs could be done most efficiently by the hospital crews under the direction of Building Superintendent, Mr. A. Buysen. Final plans were drafted for Nursing Stations 32, 33, 34, and 43, with a potential of ninety additional beds, and by early summer the program was well under way. The first beds went into service in November, and by April 1965 these previously-vacant areas will all be in service. The full potential of additional beds will not be realized until the renovations in the psychiatric wards are completed late in 1965.

The medical centre aspect of our development first became apparent early in the summer when a request was made by the University for a site adjacent to the hospital for the development of a clinical teaching building. Most of the teaching in the third and fourth years of Medicine is now carried on in the hospital—in inadequate quarters. In the next few years a trend towards a similar clinical relationship during the first and second years will develop as well. The rapidly-increasing output of young doctors by the Faculty of Medicine requires additional physical facilities and a closer relationship with the hospital is of paramount importance. A site has been provided by the University Hospital Board in the area immediately to the east of the Colonel Mewburn Pavilion. It appears likely at this time that the hospital teaching auditorium will be developed in the same area and that both will be connected to the Clinical Services Wing of the hospital. When this development is completed we will have a large and co-ordinated medical centre.



J. D. WALLACE, M.D.
Executive Director

Another development that has taken place during the year will result in the University Hospital acquiring the Colonel Mewburn Pavilion from the federal government. Negotiations carried on between the Department of Veterans' Affairs and the Provincial Department of Health will result in the construction of a new facility for the long-term care of veterans and the Pavilion will become available to this hospital for short-term, active treatment. It is interesting to note in this regard that the relationship that has existed between the University Hospital and the Department of Veterans' Affairs has been selected as the model plan to be used in the provision of care for veterans in other parts of Canada.

The upgrading of facilities for patient care, through the purchase of new and more modern equipment, continued during 1964. The most dramatic changes have taken place in the Department of Radiology where two major pieces of equipment incorporating the latest advances in image amplification and intensification have been installed. These, together with major modifications to be provided for one of the other machines, will place this hospital in a satisfactory position in this particular specialty. The program of automation undertaken in the Clinical Laboratory Department to meet the steadily-increasing demands for service, was continued during 1964, and this department now provides a very wide range of diagnostic procedures.

Undergraduate and graduate education has increased considerably during the year. This was stimulated by the publication of the Scarlett Committee Report outlining provincial requirements, and by the Hall Commission Report which is considered by many to be the blueprint for health care in Canada in the future. Through an arrangement whereby some student nurses in their third year may live out of residence, we have been able to increase our intake into the School of Nursing to 180 during 1964, an increase of nearly twenty percent over the previous year and over forty percent higher than the student intake in 1959.

The University Hospital has co-operated with the Northern Alberta Institute of Technology in the development of plans that are resulting in an increasing production of well-trained technicians in a number of special fields. Those already in operation concern laboratory technologists, x-ray technicians and dietary technicians. We have as well doubled our training facilities for certified nursing aides and have improved the program by providing a full-time clinical instructor for them.

Graduate training in administration for nurses who will undertake the responsibility of charge nurse continues, and a model nursing unit has been established for the clinical part of this educational program. A number of potential leaders in nursing service and education in the hospital have been selected and encouraged to undertake university programs in various centres in North America to better fit them for the responsibilities they will have when they return. We have as well established an orientation program through which all members of the nursing team are introduced to the procedures of the University Hospital before going to work on the wards.

A most significant development occurred during the year as the result of the organization of an administrative course for supervisors through the Department of Extension, University of Alberta. Although it meant giving up one evening a week throughout the fall and winter months, and paying for one-half of the cost of the course themselves, over seventy of our supervisory personnel enrolled. We are already seeing the results of this undertaking in improved performance, and the hospital sincerely appreciates the desire for self-improvement that has been demonstrated by these important members of the staff.

Improved personnel relationships within the hospital have been assured by the development of an Employee-Management Agreement that was given final approval by the Executive Council of the Province through Order in Council. This provides adequate procedures for negotiation, the settlement of grievances, and for the handling of other labor problems, and has been welcomed by both employees and management. This agreement has been used as a model in the establishment of similar procedures in the Provincial Civil Service.

Another new development in staff relationships has been the establishment of collective bargaining procedures at the local hospital level by Registered Nurses. This resulted from a breakdown in negotiations between the Alberta Association of Registered Nurses and the Associated Hospitals of Alberta at the provincial level. As this report is written no agreement has been reached between the hospital and its staff nurses regarding salaries for 1965.

In October the Chairman of the University Hospital Board, Mr. Donald J. Avison, decided that after many years of dedicated service to the hospital he was ready to enjoy retirement. Much of the development in the hospital took place during his service to the Board and without his aggressive spirit and loyalty to the University Hospital it is doubtful that our progress would have been as satisfactory as it has. We are sincerely grateful for his support and leadership.

On his retirement, Mr. Gordon K. Wynn was appointed Chairman by the Lieutenant Governor in Council. His interest in the health field, and his experience with hospitals, assures us of strong leadership in the future. At the time of his appointment, membership on the Board was increased to nine with the appointment of Mrs. W. F. Bowker, Mr. M. Roger Parker, and Dr. John E. Young as new trustees.

I cannot conclude this report without making special reference to the assistance that is being provided by a number of interested groups in the city. The University Hospital Nursing Reserve, now nearly 150 strong, has helped us over many rough spots in nursing service and has enabled us to maintain a high quality of patient care. The Women's Auxiliary, through its continuing fund-raising projects, has supported the Director of Volunteer Services through which the voluntary efforts of hundreds of people are co-ordinated for the good of the hospital and its patients. Through the efforts of the University Women's Club good library facilities and services have been developed and maintained. All of these groups, and more, are helping us provide the type of patient care that is expected from a major teaching hospital.

It will be apparent to all who read the Report on Finances that modern and comprehensive hospital care costs a great deal of money. As the senior administrative officer of the University Hospital, I can assure you that the funds allocated to us are well spent and that the Province of Alberta is getting good value for its investment in this hospital.

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Asst. Bus. Administrator



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Comptroller



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Superintendent
of Buildings



MRS. M. MACDONALD
Acting Director—
Housekeeping Services



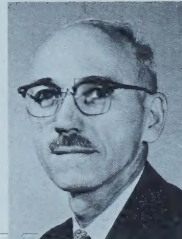
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Accountant



MR. T. HUGHES
Credit Manager



MR. J. D. BEATON
Purchasing Agent



MR. J. PEDDEN
Personnel Officer

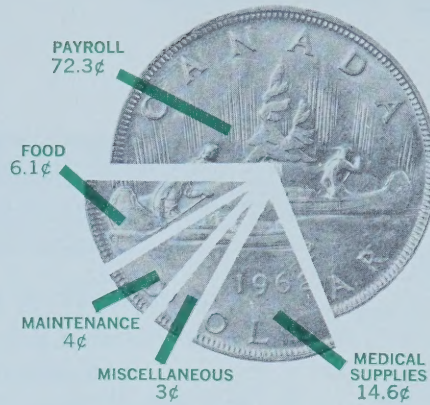
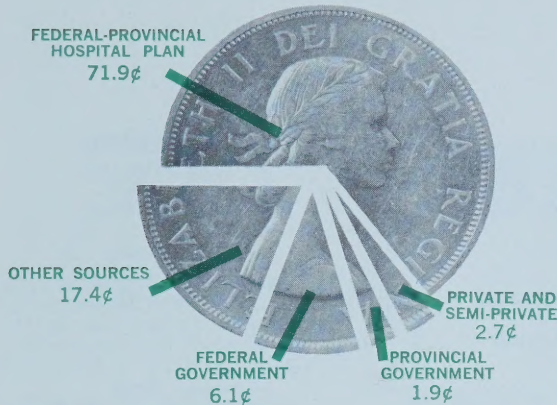
PERSONNEL MOVEMENT

	Establishment—1964		Separations—1964		
	Full Time	Part Time	Full Time	Temp.	Part Time
Administration	92	10	33	10	6
Nursing Officers & Charge Nurses	144	1	29	—	—
Graduate Nurses	276	11	255	3	45
Certified Nursing Aides	132	—	78	—	—
Ward Aides	125	—	109	—	—
Nursing Orderlies	92	—	38	19	—
Ward Clerks & Stenos	28	4	7	—	3
Nurses Residence & Interns Residence	28	1	3	4	—
Medical Records	31	3	9	2	—
Medical Directors	1	7	—	—	—
Anaesthesia	4	—	1	—	—
Clin. Lab. & Research	131	39	56	17	3
Inhalation Therapy	5	—	2	—	—
Pharmacy	15	—	4	—	—
Orthopaedics	3	—	—	—	—
Ophthalmology	1	—	—	—	—
Psychiatry	4	—	2	1	—
Rehabilitation	45	—	20	5	1
Social Service	11	—	3	2	—
X-Ray	41	—	20	7	—
Dietary	139	10	95	12	21
Housekeeping	78	—	60	2	—
Janitors	47	—	23	2	—
Linen Service	69	—	45	4	—
Maintenance	46	1	10	4	—
	1,588	87	902	94	79

FINANCES

WHERE OUR DOLLAR COMES FROM

WHERE OUR DOLLAR GOES



OUR MAIN SOURCES OF INCOME

	1964		1963	
	DOLLARS	%	DOLLARS	%
Alberta Hospitalization Benefits Plan	6,343,000.00	71.91	5,561,800.00	69.48
Federal Government on behalf of D.V.A. and D.N.D. patients	538,000.00	6.10	606,300.00	7.57
Private and Semi-Private differentials	238,000.00	2.70	245,600.00	3.07
Provincial Government—direct hospitalization payments	164,650.00	1.86	135,800.00	1.70
Other Sources—W.C.B., Blue Cross, Private Insurance, Non-Residents	1,537,450.00	17.43	1,455,300.00	18.18
	8,821,100.00	100.00	8,004,800.00	100.00

OUR PRINCIPAL EXPENSES

	1964		1963	
	DOLLARS	%	DOLLARS	%
Payroll	6,376,100.00	72.28	5,790,100.00	72.33
Food and Dietary Supplies	540,350.00	6.13	516,200.00	6.45
Medical Supplies	1,288,150.00	14.60	1,097,400.00	13.71
Plant Maintenance—excluding depreciation	350,000.00	3.97	333,900.00	4.17
All Others	266,500.00	3.02	267,200.00	3.34
	8,821,100.00	100.00	8,004,800.00	100.00

OUR PRINCIPAL ASSETS

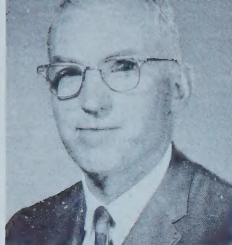
Cash on hand and in Bank	331,000.00
Inventories	360,500.00
Accounts Receivable—less provision for doubtful accounts	1,090,300.00
Plant Funds—including land, buildings and equipment	19,881,000.00

CURRENT LIABILITIES

Trade Accounts—Salaries and wages due	319,600.00
Demand Notes and Overdraft	—

SOURCES OF CAPITAL FUNDS

Province of Alberta	12,378,000.00
University Hospital	1,689,000.00
Federal Government	687,000.00
Federal Provincial Plan	5,165,300.00



DR. R. J. JOHNSTON
President, Medical Staff

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Dr. L. E. McLeod, Endocrinology and
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Dr. D. R. Wilson—Internal Medicine
Dr. G. Monckton—Neurology

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J. W. Macgregor
B. Snell

MEDICAL RECORDS COMMITTEE

H. T. G. Williams, *Chairman*
Y. Yoneda
R. W. Sherbaniuk

PHARMACY AND THERAPEUTICS COMMITTEE

J. Dvorkin, *Chairman*
W. W. Maday
W. A. Mahon

HOUSE STAFF COMMITTEE

T. S. Wilson, *Chairman*
D. R. Wilson
R. A. Macbeth
W. M. Paul
J. K. Martin
K. A. Yonge
M. T. F. Carpendale
E. A. Gain
H. E. Duggan
J. W. Macgregor
R. E. Bell
H. R. MacLean
A. S. Little
T. J. Speakman
F. G. Ramsay
R. E. Rossall
J. Dvorkin
R. C. Harrison
T. R. Nelson
W. C. Taylor
B. Snell

LIBRARY COMMITTEE

L. E. McLeod, *Chairman*
W. C. Taylor
W. H. Lakey

TISSUE COMMITTEE

J. Dvorkin, *Chairman*
S. Kling
T. R. Nelson
J. W. Macgregor
B. Snell

OPERATING ROOM COMMITTEE

R. A. Macbeth, *Chairman*
W. M. Paul
E. A. Gain
O. Rostrup
T. S. Wilson

UTILIZATION COMMITTEE

B. Michalyshyn, *Chairman*
J. R. Hilliard
K. A. Swallow
Donald M. Bell
F. G. Ramsay
A. S. Little
B. Snell

HOUSE STAFF

MEDICINE

Clinical Assistants

Farrehi, C.
Holmes, J. A. R.
Khaliq, A.
Sanderson, M.

Research Fellows

Lynne-Davies, C. H. P.
Masangkay, M.

Residents

Paez, P. N.
Talibi, T.

Associate Residents

Cranz, H. J. A.
Grebneff, G. A.
Hague, M.
Leduc, J. H. J. G.
Mendes, P. C.
Miller, J. D. M.
Ruether, B. A.
Searano, T. C.
Taylor, R. F.

Senior Assistant Residents

Davidman, M.
Godel, J. C.
Horeczko, N.
Macneil, A. R.
Lewis, M. J.

Junior Assistant Residents

Brault, A. M.
Drew, G. W.
Hackemann, M. A. J.
Macmillan, V. H.
Shutt, H. K. R.

(Hon.)

Mandin, H.
Philipson, E. A.

SURGERY

Clinical Assistants

Anselmo, J.
Cookson, W. H.
Scott, G. W.

Residents

Turner, F. W.
Miller, T. W. D.

Associate Residents

Ordman, J. A.
Sherstan, J. H.
Taseon, M.

Senior Assistant Residents

Cox, S. F.
Green, G. E.
Smith, A. G.
Yakimets, W. W.

Junior Assistant Residents

Bowes, K. L.
Dosman, J. A. H.
Rety, N. A.

ORTHOPAEDIC SURGERY

Associate Resident

Urban, A. S.

Senior Assistant Residents

Bruce, T. A.
Myers, W. N.
Wakefield, J. K.

Junior Assistant Resident

Allin, E. F.

PLASTIC SURGERY

Junior Assistant Resident

Burt, W. L.

UROLOGY

Associate Resident

Boake, R. C.

Junior Assistant Resident

King, E. G.

NEUROSURGERY

Resident

Clein, L. J.

Junior Assistant Residents

Churchill, B. M.
Porayko, O.

THORACIC & CARDIAC SURGERY

Resident

Esfahani, A. A.

Associate Resident

Chari, S. R.

Senior Assistant Resident

Olympitis, J. T.

Junior Assistant Resident

Olsen, G. B.

OPHTHALMOLOGY

Residents

Ridgway, C. R.
Ali, S. H.

Associate Resident

Standret, D. T.

Senior Assistant Resident

Graham, J. S.

OTOLARYNGOLOGY

Associate Resident

Afaganis, H. E.

HOUSE STAFF

OBSTETRICS & GYNAECOLOGY

Resident

Clements, M. K.

Senior Assistant Resident

Gabert, H. A.

Junior Assistant Resident

Newell, P. G.

PAEDIATRICS

Clinical Assistant

Shea, D. R.

Associate Resident

Bai, R. B.

Senior Assistant Residents

Pabst, H. F.
Ulan, O. A.

Junior Assistant Residents

Chandiramani, S.
Grisdale, W. R.
Macgregor, M. A.

PSYCHIATRY

Resident

Chermes, A. A.

Associate Residents

Bulgun, S.
DeCoutere, I. A. A.

Senior Assistant Residents

Simonds, P. E.
Wilson, W. A.

Junior Assistant Residents

Horsey, M. E.
Ramachandra, N.
Runions, J. E.

ANAESTHESIA

Resident

Walker, P. R.

Associate Residents

Bhambhani, M.
Leacock, A. M.
Welsh, M. R.

Junior Assistant Residents

DeYoung, G. G.
Jenkins, E. L.
Pankhurst, R. D.

RADIOLOGY

Associate Resident

Jackson, F. I.

Senior Assistant Resident

Koller, L. A.

PHYSICAL MEDICINE

Associate Resident

Woodhead, B. H.

Junior Assistant Resident

Hardin, T.

PATHOLOGY

Residents

Dadmarz, K.
Ferguson, L. A.
McWilliam, M. B.
Meilke, B. M.

Associate Residents

Ogilvie, R. I.
Siluch, K. A.
Willans, M. J.

Junior Assistant Residents

Chadsey, D. E.
Helde, M. D.

CLINICAL PATHOLOGY

Clinical Assistant

Nation, E. W.

Resident

Hill, J. R.

Associate Resident

Ashford, D. R.

DENTISTRY

Clinical Assistant

Simpson, W. J.

Senior Assistant Resident

Won, Y. S.

INTERNS

Atkinson, M. H.
Bowen, R. A.
Brown, D. C.
Dufour, T. T.
Graham, D. N.
Irwin, J.
Jones, A. B.
King, R. A.
Lampard, J. R.
Marliss, E. B.
Robinson, S. M.
Sector, B. A.
Seland, T. P.
Smith, G. D.
Soremekun, S. O. A.
Tarangle, S. G.
Wilson, A. F.
Wright, W. J.
Yeh, H. C.
Zuege, P.

MEDICAL SUPERINTENDENT'S REPORT

During 1964 most professional services in the hospital have continued to expand their workload in accord with trends established in previous years. Detailed reports on their activities are contained in the individual departmental reports. I intend therefore to highlight only a few of them here.

This was the first full year of operation of the 'ward system' which was introduced in the latter part of 1963. Experience with the system in the wards of the Departments of Medicine and Surgery has been uniformly favorable and in their reports the directors of these departments have indicated that it has improved the utilization of available hospital beds to a remarkable degree. This has, however, been at the cost of a greater workload placed on the Admitting Office staff.

In the Department of Clinical Laboratory Services over two-thirds of all analyses were processed by the autoanalyzers thereby enabling the department to increase greatly the number of tests being done without a corresponding increase in the number of technical staff. This department is the first in the hospital to use data processing as a routine. All data recorded in the department is taped in the Computer Centre of the University and is available for such things as statistical analysis, evaluation of workload and quality control of laboratory results, thus enabling the department to make the best use of its resources and to maintain the highest standards of service. The use of computers for data processing has many applications in a large hospital and no doubt the University Hospital will take advantage of some of these in the future.

The blood transfusion cross-matching service has operated very successfully during the year. The percentage of blood returned unused to the Red Cross was 6% compared with almost 30% in previous years when cross-matching was carried out at the Red Cross Blood Transfusion Centre. This constitutes a saving of several thousands of units of blood during the year.

In September the hospital began to participate in the Professional Activity Study (PAS) of the Commission on Hospital and Professional Activities of Ann Arbor, Michigan and at the same time the medical staff authorized and paid for our participation in the Medical Audit Program (MAP) of the Commission. Both of these programs consist of data processing of material abstracted from patients case records and its retrieval in a form which will permit the departments and committees of the medical staff to carry out their functions much more effectively. We are still novices in this field but already see great potential use in these programs.

The continued increase in the scope and volume of work in almost all services in the hospital has resulted in pressures from a number of departments for additional space. During the coming year these must be evaluated and met to the degree possible, within space presently, or shortly to become, available. The progress in our renovation program offers hope of some improvement in the shortage of beds, particularly in the Departments of Surgery and Medicine.

Medical Staff

The medical staff, both individually and as an organization, have had a very busy year. Many members of the medical staff have contributed long periods of time in committee activity, teaching and research. A rough measure of the latter was the publication of almost one hundred papers in scientific journals and presentation of almost one hundred and fifty addresses to medical and scientific meetings by members of the medical staff. A complete listing of these is available on request to my office.

Appointments and Resignations

Division Heads

T. A. S. Boyd	Division of Ophthalmology
J. D. M. Alton	Division of Plastic Surgery



DR. B. SNELL
Medical Superintendent

Active Staff

P. B. R. Allen	B.Sc., M.D. (Alberta); F.R.C.S. (C) Neurosurgery
W. A. Mahon	L.R.C.P. (Ed), L.R.C.S. (Ed), L.R.F.P.S. (Glas) (Edinburgh); M.Sc. (Hyg) (Harvard); Spec. Int. Medicine, F.R.C.P. (C)—Medicine
J. D. R. Miller	B.Sc., M.B., B.Ch. (U. of Wit.); Cert. Diagnostic Radiology R.C.P.S. (C) and (Alberta)—Radiology
W. R. Parker	L.R.C.P. (Ed), L.R.C.S. (Ed), L.R.F.P.S. (Glas) D.M.R.D. (Eng); Cert. Diagnostic Radiology R.C.P.S. (C) and (Alberta)—Radiology
D. W. J. Reid	B.Sc., M.D. (Alberta); F.R.C.S. (C)—Obstetrics and Gynaecology
H. J. Shimizu	B.Sc., M.D. (Alberta); Cert. General Surgery and Plastic Surgery F.R.C.S. (C)—Plastic Surgery
N. J. Soltice	B.Sc., M.D. (Alberta); Cert. in Anaesthesia R.C.P.S. (C) and Alberta—Anaesthesia
M. I. Tedeschini	B.Sc., M.D. (Alberta), Cert. in Paediatrics R.C.P.S. (C) and Alberta—Paediatrics
R. H. Wensel	B.Sc., M.D. (Alberta), Cert. in Medicine R.C.P.S. (C) and Alberta; F.R.C.P.S. (C)—Medicine

Consulting Staff

M. E. Tulloh	M.B., B.S. (Durh), D.M.R.T. (Eng)
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Scientific & Research

D. M. Fawcett	B.Sc. (Alberta); M.Sc., Ph.D., (McMaster); M.D. (Alberta)
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The following senior members of the staff resigned during the year.

Dr. G. K. Morton, who occupied the position of Head of the Division of Neurosurgery, has resigned from that position. During his years of office Dr. Morton developed the division as a service and teaching unit of high standards. Fortunately he is remaining as a member of staff in the department.

Miss Imelda Chenard resigned as Director of the Department of Social Service to become Planning Secretary of the Ottawa Welfare Council. Miss Chenard built our social service from its origin and has also participated in plans for a School of Social Work in Alberta. Her departure will be felt not only in the hospital but in the welfare services of the city and province.

Dr. A. W. McTaggart of the Department of Psychiatry has returned to Vancouver to work in the Child Psychiatric Service of the Vancouver General Hospital.

Dr. Garth Olde, Physicist, of the Department of Clinical Laboratory Services has left us to take up an appointment in the United States.

House Staff

The University Hospital is now approved by the Royal College of Physicians and Surgeons of Canada for graduate training in 19 medical specialties.

During 1964, 12 physicians who obtained all or part of their graduate training in this hospital were awarded the Fellowship of the Royal College.

The University Hospital offers opportunities for graduate training to medical graduates from many parts of the world. In 1964 these were distributed as follows:

Graduates of Canadian Medical Schools -----	84	(70%)
Graduates of Medical Schools in Great Britain and the Commonwealth able to register in Alberta by reciprocity -----	13	(11%)
Graduates of American Medical Schools -----	2	(2%)
Graduates of Commonwealth and Foreign Medical Schools not able to register in Alberta by reciprocity -----	21	(17%)

V.O.N. Referral Program

This program, which helps bring 'total care' to patients, enabling them to be discharged home, was in operation for eleven months in 1964. Mrs. Deanna Wallace, our V.O.N. Liaison Nurse, participated in eighty talks, lectures and clinics during the year and received excellent co-operation from the hospital staff.

Although many patients in the University Hospital are from rural areas and the V.O.N. operates only in urban areas, 254 referrals were made to them in 1964 and of these, 218 received V.O.N. care at home.

Volunteer Organizations

As in past years, volunteers working under the auspices of the Women's Auxiliary have contributed a great deal to patient comfort and happiness under the above co-ordination of Mrs. Jean Rymal.

The patients' library, staffed by volunteers from the University Women's Club, was very active throughout the year in distributing books to patients throughout the hospital.

I would like to express to all of these volunteers our appreciation for their efforts.

The Ward System has now been in force a full year and despite difficulties it is proving to be the most efficient way to operate the professional services of the hospital. With the passage of time, the Department has gradually regained some of its beds that have been closed for renovations and this has removed a considerable burden from the attending staff who have attempted to provide professional care for their patients with extremely limited admitting facilities. It is hoped that with the completion of renovations the Department will be back to full operation at that time and this will mark the end of several years of working under difficult circumstances.

With respect to the Out-Patient Department, from the standpoint of the Department of Medicine, one new clinic in general medicine has been started and has already become an active clinical area for treatment of patients and for teaching at all levels. In addition to this, a specialty clinic in gastroenterology has been established. The numbers attending the various clinics in Medicine are almost reaching the maximum capacity of the facilities. There is very little room for further expansion. Dr. Little has represented the Department on the Committee of Continuing Medical Education in its expanding program for the educational needs of the profession in the province. During the year the Department sponsored the first annual course on Current Therapy.

The Division of Cardiology has shown an increase in its service work-load, but the rate of increase shows signs of leveling off. During the year there was increased activity in the field of intracardiac pacemaking and a total of eight patients were treated in this way during the year prior to the insertion of subcutaneous pacemakers. During the past year, with the assistance of a cardioverter, twenty-six patients were reconverted to normal rhythm. An encouraging beginning has been made on establishing an efficient and active cardiac resuscitation program, which already has shown signs of appreciable success. Plans are now almost complete for the renovation of the cardiac catheterization room and this area should be in operation within a month or two. For the first time, biplane angiocardiographic equipment will be available and to this will be added an image intensifier at a later date. When this equipment is in operation the unit will have equipment second to none in Canada. The clinical investigations on patients who have had open heart operations continues. During the year plans have been made for recording data on some 2,600 cardiac patients on an I.B.M. system. A research grant from the Alberta Heart Fund has made this possible.

The Division of Pulmonary Disease — the work in inhalation therapy has shown a progressive increase in the volume of work done and the number of new technicians trained has also increased. During the year Dr. Philipson and Dr. Lynne-Davies have enrolled in the School of Graduate Studies and are proceeding towards their degrees of Master of Science. Dr. Masangekay and Dr. P. Paez have been continuing their research program in pulmonary mechanics, working in collaboration with the Faculty of Physical Education. The results of their work have been presented at scientific meetings in Canada, the United States and Mexico.

The Division of Neurology and its Neuro-Muscular Research Unit is continuing its study in the natural history of muscular dystrophy and at the moment of writing it is hoped that services of a well-qualified muscle chemist will be obtained. It is also hoped that within the next few months a well qualified neurologist will join the staff of this division.

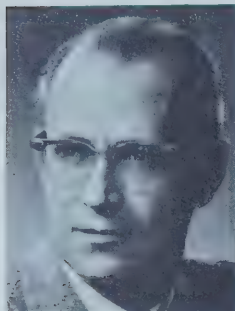
In the Division of Endocrinology, Dr. David Fawcett has been awarded a Medical Research Council Scholarship to continue his research activities in the study of biochemistry of thyroid disease with respect to iodine metabolism. In the steroid laboratory the acquisition of a liquid scintillation counter has greatly simplified the techniques involved in steroid chemistry problems. It has permitted the establishment of much more reliable and simpler techniques for studying adrenal and pituitary function. The Metabolic Unit now has a full-time research dietitian on staff in the person of Miss M. Gowda and a large number of metabolic studies have been carried out. The Metabolic Unit has contributed significantly to the long-term study of patients with chronic renal failure. During the year four patients have been maintained on the Kiil artificial kidney. The Artificial Kidney Unit has experienced an increase in its patient-load with respect to cases of acute renal failure. Reports on the work of the Artificial Kidney Unit have been presented at meetings throughout Canada and the United States.

In Clinical Pharmacology, the acquisition of modern electronic recording equipment has greatly facilitated the research in this area, particularly in relation to cardiac output and various other measurements of cardiovascular function. The equipment is also being used in collaboration with gastroenterology. There has been considerable collaborative work with the Department of Obstetrics and Gynecology, studying the effects of various adrenergic drugs on normal and premature labor.



D.R. WILSON, M.D.
Director

SURGERY



DR. R. A. MACBETH
*Director,
Department of Surgery*

It is difficult to single out any single major achievement that has characterized 1964, nor has it been a year of major frustrations. During the year, as a result of the excellent and much appreciated work of the Hospital Board and the Administration, the long awaited renovation programme was initiated and although the benefits to be derived from this have not yet become a reality, the anticipation of better things to come has calmed the storm.

During the year Mr. Ralph Coombs who for many years served so effectively as our Operating Room Supervisor left to become a Hospital Administrator. He has been hard to replace but fortunately, from our own staff, Mrs. Kindlemann has come forward and established the reputation, in a few short months, as an exceptionally competent and obliging Operating Room Supervisor. We have indeed been fortunate to have persons of this calibre.

In the 1963 report admission figures to the various surgical divisions were included. The Hospital Record Department however advises me that discharge figures are much more significant since they take into account transfers between divisions. In the 1964 report discharge figures will therefore be given. This term, as used in this report, in fact includes discharges and deaths although will be referred to simply as discharges. During 1964, 231 deaths occurred on the surgical services as compared with 228 in 1963.

During the year 1964 discharges from all surgical divisions totalled 10,319, an increase of 9.9% over the discharges of the previous year. This figure appears somewhat remarkable in view of the continued bed shortage and must be assumed to be due largely to the effective operation of the ward system. The Operating Room has also shown a significant increase in the number of operations performed. The total number of surgical cases in 1964 was 11,208, an increase of 7% over 1963, while total cystoscopic procedures numbering 5,472 showed an increase of 2.6% over the 1963 figure.

The Division of Orthopaedic Surgery, under the direction of Doctor O. Rostrup, has had a year of increasing activity which parallels that of the whole department. Discharges in the division numbered 1,909 an increase of 13% over the previous year while operations, which numbered 1,736, showed a startling increase of 19% over the 1963 figure. Total visits to the Orthopaedic Out-Patient Department are recorded at 975 visits, a decrease of 1.5% as compared with 1963. The increase in hospital activity of the Division of Orthopaedics, without any increase in its bed allotment, is probably largely attributable to the introduction of the ward system although the opening of the Glenrose Convalescent Hospital is probably also significant in this regard. The latter institution has, however, not been utilized as much as was originally hoped presumably due to its geographic situation, a considerable distance from the hospital. Two very active special clinics are directed by the Division of Orthopaedic Surgery. The Rheumatoid Hand Clinic under Doctor Gordon Wilson continues to provide an outstanding consultative service. During the year Doctor Wilson began the laborious task of preparing a manuscript based on the very extensive clinical experience at this clinic which we are sure will be an outstanding contribution to the understanding of the rheumatoid hand. The second clinic is the Juvenile Amputee Clinic which really only began to function to any significant degree in 1964. This clinic serves a small but very important and often neglected segment of the population and has already begun to establish a reputation for itself. During the year increasing interest has been manifest in the performance of spinal fusion by the anterior approach and although the local experience is too recent to permit evaluation careful documentation of all cases is being carried out so that systematic assessment of the procedure will be possible. During the year Doctor Michael Emery commenced his probationary year period on the staff and has already made a valuable contribution to the residency training programme in the form of the Fracture Rounds which he conducts with the resident staff on alternate weeks. The overall residency training programme in Orthopaedics too has become more active during the year under the guidance of Doctor John Huckell.

During 1964 the Division of Neurosurgery suffered the loss, through resignation, of the Chief of the Division. Fortunately Doctor Morton continues as an active member of the Neurosurgical staff so that his many talents are not to be completely lost to us. Well known as an outstanding teacher, a meticulous technician and above all a perfect gentleman, Doctor Morton brought to the division, through his many years of devoted service, the type of solid leadership that has prepared the soil to receive the vast technological advances that are occurring in this specialty. Since no successor has been named for Doctor Morton no Divisional Report has been submitted. It is therefore possible to record only the cold statistics relative to this division. The discharges in 1964 numbered 830 an increase of 17% over the figure for the previous year. Four hundred and fifty-four Neurosurgical operations were carried out during the year an increase of 4% over 1963.

The Division of Urology, under Doctor J. O. Metcalfe, continues to record an astounding increase in activity which has been manifest by all surgical divisions during 1964. Discharges during the year are numbered 1,280 an increase of 13% while operating room procedures numbered 431 an increase of 20% as compared with the previous year. In last year's report an astounding increase in activity in the cystoscopic unit was recorded fully 20% more procedures having been carried out in that year than the previous year. It appeared that maximum utilization had in fact been achieved but the personnel in the systoscopic unit have again demonstrated this prediction to be in error since 5,472 procedures were recorded in 1964 representing almost a 3% increase as compared with what was considered a maximal figure for 1963. The only procedure

in the entire Urological armamentarium that showed a decrease during 1964 was the excretory urogram. This was not unanticipated since the establishment of a much better liaison between the Division of Urology and the Department of Radiology was established during the year with the resulting increase in the number of these procedures carried out in the X-Ray Department. The members of the Division of Urology would particularly like to express their gratitude to Doctor R. Parker of the Department of Radiology for the close cooperation that he has stimulated between the two groups. Probably the outstanding feature of the activity of the Urological Department during the year has been the ever increasing sophistication of the diagnostic tests carried out on the urinary system. These include split renal function studies, cystograms at low and high filling pressures with voiding cysto-urethrograms as well as other highly technical investigative procedures. Many of these have been made possible only through the use of cineradiography which has proven to be a particularly valuable method in Urological diagnosis. Ever increasing utilization of image intensification and cineradiography have however made it amply apparent that the equipment of our existing Radiology Department is grossly inadequate to meet the needs of a progressive University Medical Center. Also during 1964 gas sterilization was introduced as a means of sterilizing cystoscopic instruments. This has been a major advance and although costly in terms of the sterilizer itself and the need for increased numbers of cystoscopic instruments, the benefits to be derived from more adequate sterilization had a very worthwhile return.

The statistics of the Division of Thoracic and Cardiovascular Surgery, under the direction of Doctor J. C. Callaghan, are the only ones in the Department that have stayed relatively constant during 1964. Seven hundred and eighty-three patients were discharged which is comparable to the corresponding figure for 1963. The total procedures performed amounted to 1,371 of which 992 were surgical procedures carried out in the operating room. This latter figure represents an increase of 1.1% over 1963. The remaining 379 procedures were carried out in the X-Ray Department. The one area which did show a very significant increase in the Division of Thoracic and Cardiovascular Surgery was the number of open heart operations. One hundred and twenty-two open heart procedures were carried out in 1964 an increase of 56% over 1963. The field of open heart surgery warrants brief comment on a basis of the 1964 experience. Late in the year Doctor Callaghan introduced bloodless prime for open heart surgery. This resulted in a saving of 112,000 cc. of blood in 35 patients as compared with a similar number of operations carried out with a blood primed system. While this method has limitations it is to be hoped that it may lead to the development of a new approach in connection with certain of the open heart procedures with resultant alleviation of the severe drain placed on the blood bank. It is interesting to note that 28 carotid endarterectomies for cerebral ischemia due to extra-cranial carotid vessel disease were performed during the year. Also a pilot study was initiated to carefully assess the Vineberg myocardial revascularization procedure for cardiac ischemia. Initial results in the study have been encouraging.

It has been a pleasure this year to receive from Doctor T. A. S. Boyd, a new Chief of the Division of Ophthalmology, his first divisional report. Discharges from the division during the year totalled 968 an increase of 5% over the previous year. Operations too showed an increase of 7% at 946. In the area of Out-Patient care the total visits for the year amounted to 1,221 which is a figure comparable to that for 1963. The Glaucoma Clinic and the Orthoptic Clinic both continued to be extremely active consulting services offered by the University Hospital. The outstanding success of these clinics has been due, almost exclusively, to the personal devotion of Doctor Boyd. In his report Doctor Boyd draws attention to the fact that since 1958 five graduate trainees have taken their entire Ophthalmological training at the University of Alberta Hospital and all five of these have been successful in the Fellowship Examination of the Royal College of Physicians and Surgeons of Canada. One such recent product of our own Ophthalmological training scheme is Doctor Andrew Patrick who returned to commence practice at the University of Alberta Hospital during the year. Doctor Donald Hassard who has been on leave of absence in Washington, D.C. for the purpose of a clinical and research study in corneal transplantation will be returning to the University of Alberta Hospital early in 1965. Doctor Hassard plans in the coming year to organize an Eye Bank and pursue his personal interest in corneal surgery.

The Division of Rhino-Otolaryngology, under Doctor K. A. C. Clarke, records an increase of 19% in the discharges from their division during 1964 at 1,200. During the same time period surgical operations increased 9% for a total of 1,194. Paramount among the interests of the Division of Rhino-Otolaryngology has been in the increased service rendered to the public through the provision of two O.P.D. Clinics per week. A total of 701 O.P.D. visits are recorded for 1964 representing an increase of some 12% over the previous year. The Preschool Deaf Clinic also continues to be active. Thirty-four new patients and 33 review patients were seen during the year making a total of 67 patients reviewed in this clinic during 1964.

It is a privilege to welcome a new division to the Department of Surgery during the period covered by this report. I refer of course to the Division of Plastic Surgery which was created in April of 1964 at which time Doctor J. D. M. Alton was appointed Chief of the division. The volume of Plastic Surgery performed in the University of Alberta Hospital and the number of members of our attending staff who confine their activities to this field have increased steadily over the years. Discharges from this division in 1964 numbered 421 an increase of 10% over 1963. During the same period 756 operative procedures were carried out, an increase of 32% over that recorded for the previous year. With the creation of a new Division of Plastic Surgery approval was

obtained from the Royal College of Physicians and Surgeons of Canada for full training in Plastic Surgery. Even before the creation of a Division of Plastic Surgery various individual plastic surgeons made major contributions to the operation of the Cleft Palate Clinic. With the creation of a separate Division of Plastic Surgery this contribution has been significantly increased.

The Division of General Surgery, while probably bearing a less glamorous public image than the surgical specialties, continues to be the backbone and workhorse of the patient care and teaching arm of the Department. Discharges from the Division of General Surgery during 1964 totalled 2,926 patients an increase of 5% over the previous year. Operations, surprisingly enough, were down 11% over the previous year at 2,553 cases. A most gratifying increase of 25% however occurred in the total visits to the General Surgery Out-Patient Department during 1964. The number of total visits reported was 1,759. In all 261 patients were admitted to hospital through the General Surgical Out-Door Clinic.

Within the Division of General Surgery the Peripheral Vascular Clinic, under the direction of Doctor H. T. G. Williams, continues to offer a valuable service to the people of this province. Attendance figures continue to increase slowly from year to year. Ninety-six new patients and 267 patients who had previously been to the clinic were examined during 1964.

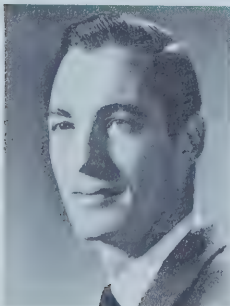
During the year two films were produced in the University of Alberta Hospital in cooperation with the Davis and Geck Division of the American Cyanamid Company for presentation at the 1964 Clinical Congress of the American College of Surgeons. One of these films entitled 'Gastric Polyposis' was produced by Dean W. C. MacKenzie and Doctor T. K. Shnitka while the other entitled 'Errors and Pitfalls in Biliary Tract Surgery' was produced by Doctor R. A. Macbeth and Doctor G. L. Willox.

The Intensive Study Course in General Surgery, originated three years ago by Doctor H. T. G. Williams, in order to assist members of our graduate training programme in their preparation for the qualifying examinations of the Royal College of Physicians and Surgeons has continued on a twice weekly basis that is extremely well accepted. The overall supervision of the surgical graduate training programme, for which an ever increasing number of applicants are received, continues under the capable direction of Doctor R. C. Harrison. It is a pleasure to report that Doctor William Pawluk and Doctor Frank Watson Turner who received their complete surgical training at the University of Alberta Hospital were successful in obtaining fellowship in the Royal College of Physicians and Surgeons of Canada at the 1964 examinations. Also one of our teaching fellows, Doctor Gerald William Scott was successful at the same examination. We cannot however claim credit for Doctor Scott's training since a major portion of it was obtained at the Mayo Clinic.

It is a privilege at this time to again record the indebtedness of the entire department to our hard working committee on Surgical Infections composed of Doctor T. S. Wilson and Doctor R. D. Stuart. Their constant vigilance has done much to maintain our enviable record with respect to surgical infections.

No attempt has been made in this report to record the many specific contributions of the individual members of the Department throughout the year. Their activity is however attested to by the 41 papers published in scientific journals, 93 papers presented at various scientific meetings and \$158,135.30 which they received from various granting bodies to support the 30 research projects under active investigation within the Department during the past year. The details of this phase of our Departmental activity has been included in the appendices to this report.

OBSTETRICS AND GYNAECOLOGY



WILLIAM M. PAUL, M.D.
Director

It will be noted that activity in the gynaecology service has again increased this year. This has, in part, I am sure, been the result of the use of beds on Station 64 for clean minor cases in gynaecology. This has also improved the status of the waiting list over last year, and is encouraging enough that I think it should be continued.

The obstetrical service continues to decline. This is a factor that is common to all obstetric units in the city, and is a trend which has been present in Canada for the last three years. It is basically a decline in the birth rate, which is well documented, and the cause of this is a matter of conjecture.

It is unlikely that modern contraceptive methods have had a marked effect on the birth rate because of the fact that those individuals who are presently using these methods, were using very effective methods in the past. It is altogether likely that this decrease in rate is due to the fact that the number of women of young childbearing age has declined in the last three years. This is because of the fact that there was a "dip" in the number of babies born during the war years. This "dip" in population size is present in North America and Europe, with regard to this specific age group. One might anticipate a considerable rise in birth numbers, starting two or three years from now because the postwar babies will be marrying and having children at about this time. This represents the present bulge in our population now in senior high school and in early University years. (It is interesting to note that the house builders of the country are also anticipating a sudden spurt in small house building, two or three years from now, as this postwar crop of individuals marry and set up housekeeping!)

The caesarean section rate on the service has declined somewhat to 4.9 per cent, with a drop in both acute and repeat section rates. The rate has fluctuated around the 5 per cent figure for a number of years, and this is considered a realistic rate in modern obstetrics.

Activity in our Outpatient Department has shown a slight increase. The decision to offer obstetric care to wives of married students on campus was made late in 1964. The response during the school year has been gratifying, and this, I would think, will be reflected in an increase in prenatal visits and deliveries on our service during 1965. I feel it also shows that it is altogether likely that a considerable number of individuals in the community would take advantage of outpatient services, if they so qualify for them. Obstetrics and Gynaecology is a discipline whose major activity is, in fact, an outpatient activity in practice. Consequently, a teaching hospital, responsible for training medical students and graduates is at a disadvantage unless they have a realistic outpatient exposure for these individuals in training.

I don't think it can be argued that delivery or assisting at delivery of a patient, can be compared with the total prenatal care, management in labor and delivery of a similar public patient, as far as a training exercise is concerned. Consequently, I feel there is no doubt that all opportunities should be seized to increase the present outpatient facility.

Investigative activity accelerated during the year 1964 in our department. With the return of Dr. David Reid and Dr. Richard Day, a program of investigation of uterine activity under the influence of a number of agents, has been carried on throughout the year. Dr. T. B. MacLachlan undertook a study of electrical activity in human myometrium in vitro and in vivo. Further studies in fetal cardio-vascular phenomenon were conducted in association with a visiting investigator, Dr. E. J. Quilligan.

Last year saw a number of staff changes. Dr. Richard Day returned to the department after a period of study in Montevideo, Uruguay; he has already proved himself to be a valuable addition to our staff. Dr. J. W. Goodwin returned to our department, late in 1964, after a period of study in Oxford. Dr. Goodwin assumed the role of Associate Professor in the University and geographic full time staff appointment at the University Hospital. Dr. T. B. MacLachlan left our department to assume the post of Assistant Professor of Obstetrics and Gynaecology at the University of Saskatchewan.

Dr. William Taylor continued to be responsible for the supervision of our nurseries. This is an ideal arrangement, since I feel there is no doubt that this is largely a paediatric function.

Plans for renovation of Station 64 were made, which will include an isolation nursery. This much needed facility will be a welcome one in the department.

OBSTETRICS

Year	Admissions	Deliveries	Total Babies	Multiple Births
1961	2490	2211	2241	30 pr. twins
1962	2588	2342	2362	20 pr. twins
1963	2559	2324	2352	28 pr. twins
1964	2412	2272	2298	24 pr. twins 1 set of triplets

OBSTETRICS

1964

Total Babies	2298
Vaginal Deliveries	2188
Abdominal Deliveries	110

GYNÆCOLOGY

Year	Admissions	Surgery
1961	1726	1675
1962	1651	1600
1963	1892	1744
1964	2017	1753

OUT PATIENT DEPARTMENT

	1961	1962	1963	1964
Obstetrics				
Prenatal clinic visits	1879	1955	1893	2059
Admissions	322	342	364	371
Deliveries	249	263	261	281
Gynaecology				
Clinic visits	692	1124	1406	1432
Admissions	148	159	184	158

PRENATAL CLASSES

	1961	1962	1963	1964
Total Registrations	187	255	213	182

PAEDIATRICS



J. K. MARTIN, M.D.
Director

On the Paediatric wards there were 3,460 admissions, an average bed occupancy of 71%, with an average length of stay of 10.2 days. In Paediatric Outpatients there were 3,987 patient visits. New patients numbered 744 and there were 258 admissions. Thirty-four new patients and 24 reviews attended the Pre-School Deaf Clinic. Ten new patients and 22 reviews were seen at the Cleft Palate Clinics. In association with the Department of Orthopedics, regular Amputee Clinics were started. These three clinics demonstrate the value of a team approach to certain problems. The children are seen by a team of specialists, dentists, therapists and a social worker. Individual examinations are completed one or two days preceding a conference, at which future plans for the patient's care are made. A part-time secretary was appointed this year, which has improved the efficiency of operation of these clinics. The clinics are financed through Provincial and National Health Grants.

New appointments to the medical staff this year included Drs. P. Bowen and E. W. Gauk. Drs. D. R. Shea and G. Paraskevopoulos were appointed Teaching Fellows—the latter at the Royal Alexandra Hospital. New Residents were Drs. R. A. Ulan, M. McGregor, W. R. Grisdale, and S. L. Chandaramani. Dr. P. Bowen is a Fellow of the Royal College of Internal Medicine, and is heading a genetic research and counselling service. It is hoped to start a weekly Genetic Counselling Clinic in the Outpatient Department in 1965. Dr. E. W. Gauk is to be congratulated on obtaining his Fellowship in Paediatrics, and Dr. D. R. Shea his Certification.

It is with considerable regret that the Department faces the resignation of Dr. K. A. Swallow in March, 1965. Dr. Swallow has contributed materially to the teaching programmes and service, particularly in Paediatric Outpatients and the Well-Child Care Clinic. She is to be congratulated on her appointment to a research project at Johns Hopkins, and the staff wish her well for the future.

PSYCHIATRY



K. A. YONGE, M.D.
Director

The total number of in-patients treated in the Department during the year was 1,020, an increase of 8.5%. In the Out-Patient Department there were 864 investigative and treatment interviews, about the same as the previous year.

As for physical treatments, the number of electro-convulsive treatments given was 1,540, slightly more than the previous year.

The number of insulin treatments was 201, less than half the number given last year but about the same number as the previous years.

The average length of stay for adult patients was 22.8 days.

The Unit for Emotionally Disturbed Children cared for a total of 63 patients, with an average length of stay of 28.1.

During the year we had, regretfully, to accept the resignation of Dr. A. N. McTaggart, who had provided such able supervision for our Children's Unit for the past four years. We were fortunate, however, in obtaining the services of Dr. D. O. C. Rapier who, since his appointment on August 1st, 1964, has shown great ability in supervising this Service.

Through the psychological services a total of 461 patients underwent tests by psychologists. This compares with 445 patients in 1963. A total of 1,870 tests were administered as compared with 810 in 1962. In addition to the diagnostic testing a total of 261 psychologist hours were reported as spent in therapeutic work.

We were unfortunate in losing four members of our psychologist staff, all proceeding to appointments in other centres. Mr. A. Valle accepted appointment to the psychologist staff. Other applicants withdrew because our salary schedule was unsatisfactory to them.

The activities of the medical social workers functioning in our Department are reported separately by the Social Service Department.

In the research activity of our Department there has been a further considerable increase this year. Dr. T. E. Weckowicz and Mr. A. Cropley have been principally engaged in our major project in the study of the Therapy of Depressions. Financial support for this work was obtained under a National Health Grant. Two papers on this work have already been prepared for publication. The continuation of the clinical trials of anti-depressant drugs has also been undertaken by Dr. Weckowicz. Dr. J. T. Gibbs has continued his research work on the extinction of conditioned response in human subjects and on the measurement of changes in peripheral circulation as an indication of arousal. Dr. J. A. Easterbrook continued his analyses of data on Socio-Cognitive Functions under a University research grant and collaborated in research on Behaviour Therapy. Dr. R. A. Craddock, during the part of the year he remained with us, produced four research reports.

The teaching of medical students in their second, third and fourth years has continued as a prominent activity of this Department. During their second year the students are occupied on the adult wards in the practice of medical interviewing. For third year students Clinics on the diagnosis and treatment of psychiatric conditions are held throughout the year. The fourth year students rotate through the Department as clinical clerks.

From our graduate training programme there were two candidates eligible to sit for the specialist examination of the Royal College of Physicians and Surgeons of Canada. One of these passed.

With the dearth of applicants for graduate training in Psychiatry we were able to appoint only eight residents to our establishment of eleven.

The nursing staff have made a most commendable contribution to the psychiatric care of patients in this hospital through their devoted and skilful service.

PHYSICAL MEDICINE AND REHABILITATION



M. T. F. CARPENDALE, M.D.
*Director—Physical
Medicine & Rehabilitation*

For the first half of the year, departmental activities were considerably curtailed by staff shortages, but in the summer the situation started to improve and by September we had a full quota of staff in both physiotherapy and occupational therapy. This situation has resulted in marked improvement in both the quality of treatment for the patients and the morale of the department.

Dr. J. G. Parish, who had been a consultant in the department since October 1960, resigned to take up a position as consultant in Physical Medicine and Rehabilitation at Passmore Rehabilitation Centre in England. Dr. Parish had contributed a great deal to the department and the hospital, especially in the area of Rheumatology and orthotics for the paralytic hand. He also contributed significantly towards the teaching programs for medical students and physiotherapists. His departure was a real loss to the department but we wish him well in his new post.

We were fortunate in having Dr. Jesse Easton join the department after Dr. Parish left. Dr. Easton is a graduate of the University of Alberta and took her post graduate training in Physical Medicine and Rehabilitation at the University of Minnesota. She obtained her Certification in Physical Medicine and Rehabilitation from the Royal College in November, 1964.

In July, Dr. Carpendale was appointed Director of the School of Rehabilitation Medicine at the University of Alberta. For this reason, Dr. Jimenez was appointed Assistant Director in the department to provide direction at times when Dr. Carpendale was occupied with University business.

A new position has been established in Occupational Therapy for receptionist-secretary and we are happy to have Mrs. Morrison in this position. This has really increased the effectiveness of the occupational therapists in their professional roles and relieved them of many purely clerical duties.

E.M.G. Laboratory

Service work in the Electromyography Laboratory has increased so much that now we frequently need the use of two electromyographs and more space. We still have an active research program in this very important new area in medicine.

Plans for Increasing the Efficiency of the Department

Plans for increasing the efficiency of patient and staff utilization of the department have been submitted two years ago. These plans include a more centralized main desk for the Co-ordinator and a second electromyography laboratory and other office space. These modifications were important two years ago but are urgently needed to allow for the increased patient load within the department.

TEACHING PROGRAMS

Course on Proprioceptive Neuromuscular Facilitation

Another course on P.N.F. was organized by the Alberta Chapter of the Canadian Physiotherapy Association in September at the University Hospital. It proved even more successful than the course last year.

Rehabilitation Nursing

After five years of discussion, the Course on Rehabilitation Nursing eventually took place in November under the sponsorship of the School of Rehabilitation Medicine and the University Hospital. This proved so successful that it will probably become a yearly event.

A visiting lecturer, Mr. J. L. Thomas, Chief Male Nurse from the Spinal Injury Centre at Southport, England, was a great help not only in the course but also in instructing Nursing Staff on Rehabilitation Ward 66, in the use of the polythene catheter. Mr. Thomas' visit was made possible by a generous grant from Alberta Polio Foundation (Royal Canadian Legion)

Group Process Institute

Dr. Carpendale attended the Group Process Institute organized at Banff by the University of Alberta. It is his feeling that all personnel in supervisory positions should attend such institutes. It is hoped that the hospital will make allowance for supervisory staff to attend these institutes in the next few years.

STATISTICS	1964	1963
Physio and Hydro		
Total number of treatments given -----	88,851	87,286
Total number of patients treated -----	6,571	5,901
Remedial Exercise Section		
Total number of treatments given -----	22,611	24,825
Total number of patients treated -----	3,601	3,644
Occupational Therapy		
Total number of treatments given -----	16,603	18,765
Total number of patients treated -----	2,525	2,354
Combined Totals		
Total number of treatments given -----	128,165	133,991
Total number of patients treated -----	12,697	12,110

There has been no significant change in the overall operational figures of the department in comparing 1964 with 1963. This reflects the fact that the staff shortage existed for approximately the same length of time in both years, and therefore in both calendar years the total work out-put is less than that in 1962.

RADIOLOGY



H. E. DUGGAN, M.D.
Director—Department
of Radiology

Number of patients examined	43,541
Number of radiographic examinations	52,714
Number of films used	212,967
Number of miniature films used	3,526
Number of fluoroscopic examinations	4,717
Number of patients for deep therapy	178
Number of deep therapy treatments	523
Number of patients for superficial therapy	453
Number of superficial therapy treatments	1,213
Number of consultations concerning radiation therapy	520

There has been a definite increase in the number of patients examined in the Diagnostic Section of the Department of Radiology as compared to the year 1963. The number of special examinations has increased. This partly accounts for the large increase in films used.

Dr. H. F. W. Pribram resigned from the Department of Radiology January 14th, 1964. He has taken a new post at the University of Iowa, Iowa City.

Dr. A. Galanti accepted a position as Staff Radiologist in July, 1964.

Dr. L. Costopoulos became a member of the Radiological Staff November, 1964.

Dr. H. E. Duggan has submitted his resignation as Director, Department of Radiology, effective June 1st, 1965. He will be taking a new post as Director, Department of Radiology, Foothills Hospital, Calgary, Alberta.

Mrs. D. L. Weijer was appointed Consultant to the Isotope Laboratory and Radiobiologist, Department of Radiology, November 1st, 1964.

A new Philips Gastric Unit was installed in the Department. This apparatus has image amplification and intensification, a cine radiographic attachment and television viewing. This unit will greatly facilitate many examinations which require fluoroscopy. The installation of the new Cardiac Unit has been started. Completion of this installation will occur early in 1965.

Scanning using the Picker Magna Scanner has become a common procedure. Scans of the brain, kidney, liver, spleen and thyroid, are being done routinely. The investigation of new radioactive isotopes requiring the use of the Picker Magna Scanner is being developed by Mrs. D. L. Weijer. The most recent isotope is Strontium-85 which is being used to detect early skeletal metastatic disease.

A joint Federal Provincial project by Dr. G. L. Olde and Dr. H. E. Duggan entitled, "The Measurement of Total Population Radiation Hazard from Diagnostic X-Ray Procedures by Means of the Accumulated Individual Radiation Doses Received and the Linkage to Individual Vital Statistics by Means of I.B.M. Coding and Selection", has been finalized and the final report sent to the Federal and Provincial Government. Dr. Olde has resigned from the Isotope Laboratory and has taken a new post at the University of Iowa, Iowa City.

Radioactive phosphorus was used in the treatment of 26 patients suffering from polycythemia rubra vera and 19 patients with multiple myeloma, lymphosarcoma, mycosis fungoides, lymphatic leukemia and carcinoma testicle. Radioactive colloidal chromic phosphate was used in 6 cases and radioactive iodine in 7 cases of carcinoma of the thyroid gland. Eye tumors were localized in 6 patients using radioactive phosphorus.

A paper entitled, "The Mechanism Underlying the Response of Polycythemia rubra vera to Radioactive Phosphorus P-32", D. L. Weijer, H. E. Duggan, J. Weijer, Journal of the Canadian Association of Radiologists, March, 1963, has been chosen to be included in the contents of Time Capsule II. This paper was selected by a special committee consisting of fourteen people including Dr. Glenn T. Seaborg, winner of the Nobel Prize for Chemistry and Dr. D. W. Bronk, President, Rockefeller Institute for Medical Research. The Time Capsule is to be buried October 16th, 1965, and will include significant items related to world progress in the past twenty-five years.

A number of lectures have been given and papers published by the various members of the Department of Radiology.

Once again there has been a small increase in the volume of work over that of 1963, as shown in the following table.

	1961	1962	1963	1964	Increase over 1963
Total Anaesthetics					
Administered -----	9,522	9,746	10,798	11,665	867
Elective -----	8,131	8,286	9,151	9,956	805
Emergent -----	1,391	1,460	1,647	1,709	62
Average Anaesthetic Time (minutes) -----	80.2	78.0	75.6	77.6	1

This work load was easily handled even with two operating rooms closed during May to October, with our highest volume being in June. Operating rooms were frequently closed throughout the year and therefore we do not anticipate any difficulty in handling the extra work expected when the renovation program is completed. If it is found necessary to open another operating room anaesthetic staff is available.

Our graduate training program continues to be a busy one, with a full quota of residents for 1964 and the same is anticipated for 1965. Two residents, Dr. A. M. Tulloch and Dr. G. Drummond completed their training and were successful in the Certification Examinations. Dr. G. Drummond has joined the staff of the department. Dr. F. C. Haley and Dr. N. Soltice were successful in the Fellowship Examinations.

Dr. J. W. R. McIntyre has assumed the supervision and development of clinical investigation and research in the department and the organization of basic science teaching in the Resident training program. As a result we are witnessing a rapid development in this aspect of the department's activities.

During the year several members of the department attended and actively participated in several meetings, details of which are separately attached.

A statistical review of the year's work is appended with comparative figures from previous years. There has been an increase of 12 per cent in the total work units over the previous year. The largest increase in work occurred in the blood bank unit where there was an increase of 29 per cent in the crossmatching done with an increase in the number of bottles used of 11.4 per cent. This difference reflects the recrossmatching of bottles of blood if they have not been required. Out patient work increased by 9.2 per cent.

A year ago a program to put all of the data relating to work in the laboratory on a data processing system was started. The work in the major areas is now so recorded. This material has been transferred to taped records in the Computing Centre at the University of Alberta where the accumulated information can be processed. This development will make possible a much more careful statistical examination of the work loads, investigation of normal distribution of laboratory results, seasonal and other variations in measurements and much other information required to plan and provide for the best possible utilization of laboratory services. It will also provide the statistical data for monthly and annual reports. Programming of the data to obtain information is now being done by a graduate student on a part time basis. To make the maximum use of this data system, it will be necessary to provide assistance in the nature of a computer programmer who can be responsible for the accumulation of the information and working with the Computing Centre to get out the information as it is required.

During the year we faced again the problem of shortage of trained laboratory staff. However, with special efforts on the part of the staff we were able to maintain our full 24 hour laboratory service and curtailment of service was not required. Staffing problems will continue to be a problem until training programs now in operation can catch up with the demand.

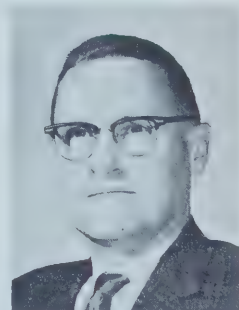
In the past several years we have in the clinical chemistry division modified many procedures to automated analysis. In the past year automation of the simultaneous determination of sodium, potassium, carbon dioxide content and chloride in blood serum was accomplished through the purchase of the necessary equipment. At the close of 1964 over two thirds of analyses were automated. The atomic absorption spectrophotometer was also introduced to make possible more accurate and convenient analysis of calcium, particularly in specimens other than blood as well as a variety of trace metals such as lead, zinc, mercury, etc.

ANAESTHESIA



E. A. GAIN, M.D.
*Director,
Department of Anaesthesia*

CLINICAL LABORATORY SERVICES



R. E. BELL, M.D.
*Director—Department
of Clinical Laboratories*

In the hematology division it has not been possible to fully automate many of the procedures. Attention has been paid however to automating individual steps where this is practical. It is hoped that some automation of the more problem procedures at least will be possible in the near future. The method for quantitative estimation of coagulation factors deficient in hemophilia were set up and microbiological assay of folic acid was also introduced.

The following changes in senior staff were made during the year. Dr. G. Olde, formerly Physicist in the radioisotope laboratory, left the department to take up a position in the United States. The work previously done by Dr. Olde will be carried on by various senior members of the laboratory staff with the assistance of Mrs. D. Weijer, M.Sc., acting as Consultant in Radiation Biology. Dr. J. R. Hill completed his training in clinical pathology and received his certification in pathology by the Royal College of Physicians and Surgeons. He has accepted a position as the Assistant Clinical Pathologist in this department starting January 1965. Dr. H. B. Collier, Professor and former Head of the Department of Biochemistry at the University of Alberta has been provided space in the department until such time as other facilities near the clinical services are available. His extensive knowledge and experience in biochemistry will be an asset to the department in our research, teaching, and special studies.

Ten students completed their training under the two year apprenticeship training program and wrote their certification examinations to become registered technicians. The first group of fifteen students trained under the joint Northern Alberta Institute of Technology and hospital program started their one year hospital training in mid-summer. While it is too early to fully evaluate this new program, our experience with it so far has been good. The new University program in Medical Laboratory Science was approved during the year and the first students registered in the revised program in September. These students will spend a full year in the laboratories of the hospital and Provincial Laboratory commencing in 1966. We feel that this is an important program unique in Canada and one which will supply many of the senior technologists and research personnel in medical laboratories in the future. During the year post R.T. graduate courses were given in hematology and chemistry in conjunction with the Edmonton members of the Canadian Society of Laboratory Technologists. Two of our staff completed thesis work towards advanced technical qualifications.

The hospital hygiene program has been developed under the direction of Dr. J. F. K. Penikett in the Division of Microbiology. Four thousand nine hundred and seventy-five specimens were collected from various areas of the hospital and examined for sterility or type of organisms present. This continuous monitoring of hospital areas to detect at the earliest time possible, spread of infection represents a major step towards prevention of serious outbreaks of cross infection.

A new 16 channel electroencephalograph was purchased for the electroencephalograph section. This allows many more areas of the brain to be studied simultaneously, improving the precision with which lesions can be detected and localized.

With the volume and complexity of the work being done in all sections of the laboratory, control of supplies and equipment is becoming a problem. Preparation of inventories at regular intervals to ensure the most efficient operation requires the major attention of a full time laboratory storesman or steward. It is hoped that provision for this will be made in the coming year.

	1963		1964	
	Tests	Units	Tests	Units
Clinical Chemistry	167,000	517,124	#178,000	557,120
Hematology	216,915	315,177	235,594	350,276
Blood Bank	18,427	98,227	25,726	141,243
E.C.G.'s	8,427	33,788	9,491	37,964
E.E.G.'s	2,512	30,144	2,611	31,332
Hospital Hygiene			4,975	17,110
Miscellaneous	2,137	2,696	2,016	3,133
	415,418*	997,156	458,413*	1,138,178
Radioisotope Laboratory				
Total Diagnostic Procedures ---	2,816	29,117	2,081	27,006
Bacteriology and Serology				
Provincial Laboratory		344,441		393,788
Red Cross				
Patients Transfused	2,837		4,966	
Bottles Used	8,770		9,606	

#Estimated from unit value 3.3 units per test (1962 average)

*Figures include 73,100 and 79,851 tests done on out patients

Surgical Pathology:

During the year 7,714 surgical cases were examined and reported upon. This represents an increase of 500 over the previous year. In this group of cases there were 755 cases of cancer. The most common sites were the breast and uterus in women, and the lung, large intestines and prostate gland in men.

Frozen Section:

In many of the malignant cases the diagnosis was established by the frozen section technique in the operating room, using the Cryostat, which the hospital recently purchased for the department. The use of this machine has greatly improved the quality of the sections which can be obtained, and has extended the use of this technique to many cases, which formerly could not be examined because of technical problems with the older methods of preparing frozen sections. Frozen sections were prepared and examined in 306 occasions during 1964.

Cytology Service:

The cytology service in the hospital is developing rapidly under the direction of Dr. T. A. Kasper. During the year over 30,000 cytology smears were examined in the Province, including 1,253 cases from the University Hospital. While most of these represent smears from the cervix, the work is being extended to include sputum, bronchial washings and gastric washings. Constant attempts are being made at improving presently existing techniques.

Autopsy Service:

During the year autopsies were carried out in 451 cases, representing 74% of total deaths. The high percentage of autopsy examinations performed among the total deaths may be regarded as an index of the interest of the medical and surgical staff in checking upon clinical diagnosis and in completing case studies.

Resident Training Programme:

Dr. Bruce Mielke completed his training in Pathology in the department, and obtained Certification in Pathology through the examinations of the Royal College of Physicians and Surgeons of Canada in the fall of 1964.

Dr. Mielke has joined the permanent staff of the department of Pathology, with the rank of Assistant Professor.

Dr. David Ashford will enter the final year of training in Pathology as of July 1st, 1965.

Resident trainees from other specialties including Medicine, Surgery, Obstetrics and Gynaecology, Urology and Orthopaedics, received periods of six months training, within the department during the year.

Other Hospital Activities:

Members of the Department of Pathology continue to play an active role in case discussions and clinico-pathological presentations in conjunction with other departments.

In addition, a monthly clinico-pathological conference is presented for the members of the staff and residents, covering a wide range of topics.

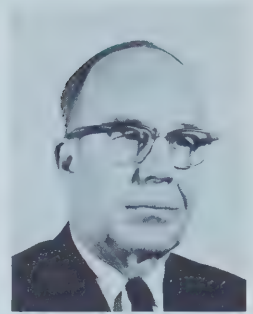
All research projects or special services carried on in the hospital have been reviewed and passed by the Committee. To facilitate this procedure, a subcommittee, under the Chairmanship of Dr. William Paul, reviewed all projects in detail prior to their presentation to the whole Committee. Dean W. Bowker of the Faculty of Law of the University of Alberta sat with the Committee as an advisor to review projects in which there were ethical or medico-legal aspects requiring an outside opinion. Dean Bowker's services to the Committee have been extremely helpful in reaching a proper decision with respect to these research projects.

Details of the research carried on in the hospital will be included in the various departmental reports and will not be repeated here.

Dr. Peter Bowen, whose interest is in the field of human genetics, has joined the Department of Paediatrics as Associate Professor. The Committee gave financial support to provision of space for a genetics laboratory, and also provided technical assistance to aid in initiating the program in research and service in human genetics. This unit provides a genetic counselling service for individuals or families in whom there is a problem of inherited or familial disease.

The Committee has continued to provide partial support of the cardiopulmonary unit for special investigations in heart and lung disease. Support has also been given to providing technical assistance with respect to special biochemical analyses required for research purposes in different departments.

PATHOLOGY



DR. J. W. MacGREGOR
*Director—Department
of Pathology*

SPECIAL SERVICES AND RESEARCH COMMITTEE



DR. W. C. MacKENZIE
Chairman

The Division of Orthopedics has received support for a follow-up study of the patients who have had arthroplasty of the hip joint.

The Committee has also given financial support to the Department of Medicine for the purchase of a multichannel recorder to be used in studies in clinical pharmacology. Aid was also given towards the purchase of a liquid scintillation counter for measurement of isotopes emitting particles of low energy used in hormone assay.

The Peripheral Vascular Clinic continued to receive support to provide special investigation and assessment of blood flow in the limbs. Details of this work are included in the Department of Surgery report.

There has been considerable international interest in treatment where patients are placed in an environment of high oxygen tension. Dr. B. J. Sproule attended an International Conference held in New York City on the subject of use of this treatment method and prepared a detailed report of the present status of hyperbaric oxygen treatment and the requirements of staff, space, and equipment necessary for the use of this procedure. After careful consideration of the report the Committee felt the hyperbaric oxygen treatment was still in an experimental stage and in view of the cost, space, and other implications it was premature to initiate a unit for this work here. The situation will be reviewed again as more information becomes available in this field.

The glaucoma unit, under the direction of Dr. T. A. S. Boyd of the Department of Surgery, which was initiated with financial and other support from the Special Services Committee, has now a well established program of research and special diagnostic service in glaucoma. Support for this work has been provided largely through National Health grants and a grant from the Medical Research Council.

Similarly, the chronic renal failure unit, under the direction of Dr. L. E. McLeod in the Department of Medicine, is now largely supported through a grant from the Department of Public Health. This unit has received international attention.

Both these units are supplying important services not available elsewhere in the Province. Details of the work in the glaucoma and the renal failure units are given in their respective departmental reports.

The Committee assisted the Faculties of Medicine and Engineering of the University of Alberta in initiating the development of a medical electronics program at the University of Alberta. Negotiations with a candidate suitably qualified in medicine and engineering to take an academic appointment in this field were carried on and it is expected he will be appointed in the coming year. The application of electronics to medicine is a field that is expanding very rapidly, and this development is regarded as important for the full utilization of these techniques in treatment and research.

Largely through the stimulation and assistance provided through the Committee, substantial funds are now received from outside sources for support of research and special services in the hospital. In 1964 this amounted to over \$140,000.00.

DENTISTRY



H. R. MacLEAN, D.D.S.
*Director—Department
of Dentistry*

Report For Year Ending December, 1964:

Total Number of patients treated	1,264
Number of oral surgery cases under local anesthetic ----	248
Number of oral surgery cases under general anesthetic --	71
Patient visits	945

Approximately 75% of the above service was rendered to children with chronic illness (mental retardation, cerebral palsy, congenital heart disease, etc.).

Total dental care (fillings, removal of teeth, fluoride treatment, space maintainers) was provided for these patients under general anesthetic, and we are most appreciative of the work of the Department of Anaesthesia for their assistance.

There is no fee being charged for this dentistry for children, and most of it is being done by dental externes under staff supervision.

Forty dental undergraduate students are timetabled in groups of three on regular two-week training periods.

One graduate student has held a residency for the past year.

A research project "The Study of Tooth Eruption in Children From Infancy to Three Years" was conducted under the support of a National Health and Welfare Grant.

The Outpatient Department has continued to show a substantial increase in total patient visits and in total patients treated although there has been a slight decrease in the number of new patients admitted to the clinic. This reflects a more stable patient population and suggests a more complete medical care for those who are attending the clinic. This reflects also an average of 4.5 visits per patient for the year. The distribution of patients as from city or province remains about the same as it has over the past years, about two-thirds being referred from the city and about one-third from the province.

During the year we have added five new clinics and are in the process of starting a sixth. The department of Medicine has added one general and one specialty clinic (G.I.), the Department of Pediatrics has added one general clinic and one specialty clinic and a new clinic for University students' wives has been inaugurated by the Department of Obstetrics and Gynaecology.

The cost of drugs in Outpatient Department has been one of the problems which has faced us over the past year and it is interesting to note in this regard that the number of prescriptions filled as related to the total patient visits is about the same as it has been since 1959 and runs slightly more than one prescription per patient visit over the total year.

Emergency Department. Over the past five years the number of patients seen in the Emergency Department has increased from approximately 25,000 to more than 35,000. There has been a steady increase of about 10% per year and during the past year this increase is almost entirely due to outpatients attending at the Emergency Department rather than the treatment of in-patients. As you will see from the figures submitted with this report, the number of inpatients treated in the Emergency Department has remained almost constant while the number of outpatients has increased markedly. The admissions from the Emergency Department still are running at almost exactly 10% of the total number seen in the Emergency Department and this figure is a fairly constant figure over the past few years.

The increase in total patients seen in the Emergency Department together with a revision during the past year of Outpatient charges, has resulted in a considerable increase in earnings for this department.

It would be improper for me to submit an annual report without expressing my thanks to the loyalties and energies of the staff in both the Outpatient Department and the Emergency Department. The Medical staff, the nursing staff, the orderlies and the ward clerks have all done a great deal to provide the services in these areas. The Women's Auxiliary has given a very substantial aid in the volunteer work in the Outpatient Department and I feel we owe them a great debt.

OUT-PATIENT AND EMERGENCY



A. S. LITTLE, M.D.
*Director—Out-Patient &
Emergency Department*

EMERGENCY DEPARTMENT 1964

	1959	1963	1964
Total Patients	25,000	32,858	35,606
Total New Patients		23,604	26,453
Total Outpatients		27,987	30,434
Admissions		3,487	3,569
Plaster Room			
Outpatients			2,645
Inpatients			545

OUTPATIENT DEPARTMENT 1964

	1959	1963	1964
Total patient visits	16,666	25,493	27,000
Total patients treated	3,654	5,669	6,017
New patients	2,121	2,466	2,357
Patients adm. to hosp.	915	1,779	1,757
Prescriptions filled	17,592	27,750	29,034

SOCIAL SERVICE DEPARTMENT



MISS I. CHENARD, M.S.S.
*Director—Social Service
Department*

Efforts to maintain a high quality of professional service in the hospital continued to be the main endeavour of the Social Service Department during 1964.

The number of requests for services directed to the Social Service Department in 1964 when compared with the 1963 totals reveals an increase of almost 14%. During the same period there was an increase in the total number of interviews of 39.8%. Many of these cases involved ten or more interviews with the patient, family members and other professionals concerned with the care of the patients. The total number of cases dealt with in 1964 was 1,348, an increase of almost 10% over 1963.

Miss I. Chenard, the Director of Social Service Department since its inception in 1961, resigned in June 1964.

Communication, liaison and good public relations between the Social Service Department and other social agencies and institutions in the community continued to be evident throughout 1964.

The staff aided the research assistants from the Edmonton Welfare Council and the Alcoholism Foundation of Alberta in their joint research study of "Single Women in Conflict" in August 1964.

In 1964, as in past years, a group of welfare workers from the Welfare Department of the City of Edmonton visited the Social Service Department as part of their orientation program. The Acting Director outlined to this group how Social Service functions in the hospital setting and its relation with other agencies in the community.

The social workers and case aide on staff participated in a total of 1,396 case conferences, departmental rounds, meetings, seminars, and lectures in the hospital during 1964. (Total for 1963 was 1,168.)

DEPARTMENT OF CHAPLAINCY



REV. R. K. DOUGAN
Hospital Chaplain

A comparison of the Hospital Chaplaincy Service statistics for 1964 with those of the previous year points up some significant changes. These include a decrease in the number of patients visited, an increase in consultations with the medical staff, nurses, ministers and other hospital personnel. An increase in office counselling and an increase in the Chaplain's teaching responsibility. In the Fall of 1965 the Chaplaincy will have been in operation for five years on a full-time basis.

Pastoral care of patients and their families still constitutes the major emphasis of a chaplaincy program. This aspect of the Chaplain's ministry consumes more time than all other functions combined. While visiting patients is undoubtedly the primary emphasis, 1964 showed a significant shift of this emphasis. The statistical summary indicates that 1,218 visits were made to 557 patients in 1964. This compares with 1,574 visits to 709 patients during 1963.

The year 1964 provided a great many opportunities to speak to professional, community and church groups concerning the chaplaincy program and religion and health. During the year I participated in 128 meetings, a slight decrease from the previous year's 139.

Consultation interviews with ministers, doctors, nurses, social workers and other hospital personnel increase in number each year. In 1963 there were 569 such interviews and in 1964 they numbered 658.

During 1964 I participated in 85 hours of lectures, seminars and clinics.

In conclusion, it can be said that the Hospital Chaplaincy Service provides a varied and complex ministry within the hospital community.

This year has been a continuation of last year's activities in that every effort has been put forth to encourage the nursing personnel to become better prepared, and to adopt ways and means of improving nursing service for the patient.

Three charge nurses and three general duty nurses were granted leave to attend University for further study.

Two administrative supervisors are enrolled in the Unit Administration Course.

Two supervisors, two charge nurses, and two assistant charge nurses are registered in the evening course, Nursing Education 453.

Four members of the obstetrical staff have completed the Advanced Obstetrical Course, and one has completed the post-graduate course in Obstetrical Nursing, Royal Victoria Montreal Maternity Hospital.

The Nursing Survey Team completed both phases of the nursing survey, and the recommendations have been extensively studied. Short-term and long-term plans have continued to be formed. Some of these follow.

(1) Reorganization of the housekeeping services to combine ward aides and housekeeping staff. This was established on a trial basis in the Mewburn Pavilion in order to determine if this is a workable plan.

(2) Further studies are planned in relation to the nurses' function and the dietary service.

(3) Patient care plans are finalized and all patient care areas are being instructed to use them effectively.

(4) An on-the-job training centre has been set up. The purpose is to prepare team leaders and charge nurses.

(5) Each charge nurse has attempted a long-term study of nursing care needs of patients, and the daily nursing coverage.

(6) Many hospital forms have been studied and revised in order to diminish the nurses' clerical word load.

(7) The hospital policy manual is under study and revision.

(8) Two assistant nursing supervisors have been added to the Nursing Service office—one on the afternoon period, one on the night period. One full time instructor was provided for patient teaching in Metabolism.

(9) Nursing administrative supervisors have been relieved of considerable clerical work in the Nursing Office, thereby increasing the amount of supervision on the patient care units.

(10) The nursing care routine in the Burn Unit has been studied and improved.

(11) The Staff Education Program has continued to improve under the competent direction of Miss Grace Johnston.

The time-and-motion studies which was the second phase of the Nursing Survey revealed that,

(a) Nursing personnel are required to carry out a greater proportion of the porter and messenger service throughout the hospital;

(b) The best utilization of nursing personnel is not being obtained;

(c) There is no evidence of over-staffing, but non-nursing functions are causing wastage of professional personnel time.

These above issues will set the blue prints for further study and action .

Ten graduands received assistance from the Director of Nursing Contingency Fund.

The Cardiac Recovery Room was reconstructed. The nursing care requirements there were studied and improved.

The nursing service complement established for 1964 was not met until late in September 1964. Therefore, more part time personnel were required.

There was an increase of 6,816 hours of nursing care rendered in 1964 to patients requiring intensive care.

The following is a comparative report for three years on

Nursing Staffing

	1962	1963	1964
Nursing Officers	47	50	57
Charge Nurses	50	51	54
Asst. Charge Nurses	28	33	31
General Duty Nurses			
Full time	224	259	280
Part time	12	11	11
Certified Nursing Aides	102	111	116
Operating Room			
Assistants	15	17	17
Ward Clerks	21	22	22
Ward Aides	121	124	121
Orderlies	88	89	95

Resignations

	1962	1963	1964
Nursing Officers	5 - 10.6%	3 - 6 %	8 - 14 %
Charge Nurses	13 - 26 %	15 - 29.4%	8 - 14.8%
Asst. Charge Nurses	7 - 25.3%	13 - 39.3%	5 - 16 %
General Duty Nurses	203 - 90.6%	281 - 85 %	193 - 68.5%

NURSING



MISS M. G. PURCELL
Director of Nursing



MISS M. J. LEES
Associate Director—
Nursing Service



MRS. J. F. ELLIOTT
President, Nursing Reserve

The Nursing Reserve

The Nursing Reserve members have drawn up the Constitution and By-Laws for their organization. The members have faithfully attempted to fulfil their aims in providing relief service to the hospital and to continue an active educational program. The monthly newsletter sent out by the executive helps to keep all members informed of activities within the organization and also creates a closer liaison amongst the members. The first and second class members of the Nursing Reserve were presented with a certificate by the University Hospital Board.

Forty-two members registered in November for the third program of the Nursing Reserve course of instruction.

The following is a comparative report of the nursing service rendered to the University Hospital since the inception of the Nursing Reserve Program.

	1963	1964
Members on duty full time	4	5
Members on duty outpatient department	3	3
Members on duty regularly part time	8	4
Members on duty full time, holiday relief	41	62
Members reporting for relief posting	36	74
The full total of eight hour periods given in service	2,530	4,998
This equated as full time staff	11	22
Active members in the Nursing Reserve organization	48	38
Total	86	

The Victorian Order of Nurses referral program was established with the University Hospital in February. The aim of this program is to improve total patient care through a continuity of supervised nursing care of the patient after discharge from hospital. The V.O.N. liaison nurse has participated actively with the medical and nursing staff in conferences, personal contacts, and interviews, in order to make this service effective. She also participates in lectures, discussions and classes. Many of the patients in the University Hospital are referred from areas outside of the city and, therefore, the V.O.N. nurse is required to refer many to other health agencies as well as to the V.O.N.

In the eleven months a total of 254 referrals were made. Of these, 214 were referred to the V.O.N.

Surgical Nursing Services

Mr. Ralph Coombs, Associate Director of Surgical Nursing Services resigned in the summer. This position remains vacant.

The work load in the Operating Room, the Recovery Room, and Emergency, increased considerably over the year, with no increase in staffing.

Six medical students were employed during the summer months, as operating room assistants.

Twenty-three new graduates and three new O.R. assistants, replacements for staff vacancies, were orientated to operating room services.

The Central Supply Room services were studied, to improve the control of supplies and to implement a better delivery service to the nursing units.

NURSING EDUCATION

One classroom instructor was granted leave to attend the University of Washington, Seattle, for study towards a master's degree in Nursing Education.

Two clinical instructors were granted leave to attend the University of Alberta for the diploma course in Teaching and Supervision.

The teaching staff was increased by three in the clinical nursing area.

Graduation Exercises were held.

April 6	37	graduated
October 20	68	graduated
Total	105 graduated	

There were three failures in the conjoint examinations. Two students rewrote and were successful.

Student Withdrawals from Graduating Classes

January 1964	6
September 1964	24
Total	30

Reasons for Withdrawal

To be married	7
Health	0
Failure to meet standards	0
Death	1
Transferred to other faculties	13
Other reasons	9

Attrition rate—21.8%



MISS M. R. THOMPSON
Associate Director—
Nursing Education

The Admissions Committee reports and records comparative figures for the past three years.

	1962	1963	1964
January class -----	36	46	66
September class -----	93	102	114
Total -----	129	148	180

	1962	1963	1964
Enquiries for calendars -----	595	559	649
Requests for application forms -----	580	500	530
Applications received -----	229	340	367
Applications accepted -----	129	148	180
Students reinstated -----	2	1	2
Applications rejected -----	4	17	1
Medical reasons -----	3	4	0
Academic reasons -----	1	9	0
Applications withdrawn -----	96	160	131
Unsuited for nursing -----	0	4	1

There are 138 applications on file for classes in February and September 1968.

Thirty-two students withdrew from the school during the year. The total enrollment as at December 31st stands at 395, including 3 affiliates from The Archer Memorial Hospital, Lamont.

It is with deep regret I report the accidental death of Joyce Harasem, Class September 1965. Miss Haresem was the victim of a drowning accident July 9, 1964.

Students married during the year ----- 11

Students granted leave of absence ----- 15

Twenty-four students in the senior class were permitted to live out of residence. A living out allowance of \$30 per month was provided for each student.

Clinical experience was provided in the outpatient department for the students of the Royal Alexandra Hospital School of Nursing and in Paediatrics, for the students from The Archer Memorial Hospital School of Nursing, Lamont.

Field experience was provided for nine students from the University of Alberta School of Nursing, and five students from the University of Saskatchewan School of Nursing.

Field experience was provided also for the students registered in the Advanced Practical Obstetrics course, University of Alberta.

Two graduate nurses enrolled in the obstetrical course and one in paediatrics to complete requirements for registration.

One graduate student obtained clinical experience in psychiatry in preparation for further education at the University of Alberta School of Nursing.

The Curriculum Committee have had a busy year. Various types of programs were studied. The preclinical term of instruction was reviewed and revised as well as the senior block program. As a result the preclinical course of instruction in Nutrition has become an integrated course in Anatomy and Physiology and Principles and Practice of Nursing, with occasional guest lecturers from the dietary department as required. Changes have been recommended in the course in Biochemistry, and in Tuberculosis affiliation.

Concurrent teaching programs in Obstetrics, Psychiatry and Paediatrics were planned.

Miss M. Schumacher, Adviser to Schools of Nursing for the Province of Alberta visited the school in September.

The Eva Shimizu Memorial Prize for outstanding merit in the theory and practice of Orthopaedic Nursing has been provided by the family and friends of the late Eva Shimizu Tsuyuki, of Class September 1965. The prize was awarded for the first time at the October graduation exercises.

There were eighty-eight applications for financial assistance.

United Commercial Travellers ----- 15

Shaw Memorial Fund ----- 5

Revolving Loan Fund ----- 13

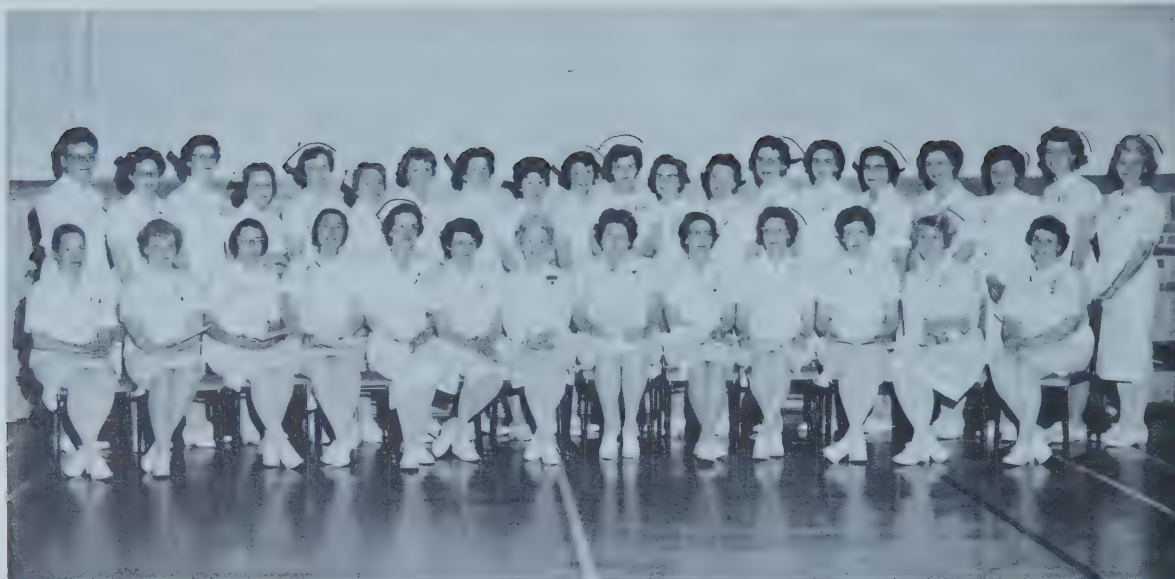
Students' Assistance Grants and Loans ----- 53

Bank Loan ----- 1

Alberta Hospital Association Loan ----- 1

Library Report

The Agnes Macleod Memorial Library is functioning well under the new supervisory system. There are 1,728 books, representing 853 titles (an increase of over 100 books) in the library. Only 18 books were lost in 1964, a decided improvement over previous years. This past year we added 233 books (91 titles) to the library and the average monthly circulation was 768, an increase of 213 books monthly over 1963.



Nursing Reserve Graduating Class

Student Activities

Varsity Guest Weekend was held February 22. The students prepared an excellent display.

The students have actively participated in the Student Nurses' Association of Alberta. They were hostesses for the annual Talent Show this year.

The Macleod Club raised money to send one representative to St. John's, Newfoundland, to the Canadian Nurses' Association Biennium. A generous gift from the members of the Medical Board provided financial assistance for one other student to attend.

A group of students were guests at the University of Saskatchewan School of Nursing on an exchange weekend in July.

Miss Donna Paterson, Class September 1964, received the Women's Canadian Club Education Award as the outstanding woman student in student activities at the University of Alberta.

Miss Mary Lou Wells was elected Vice-President of the Student Council of the University of Alberta.

The Nursing Advisory Board

The Nursing Advisory Board has held six executive meetings, and two general meetings.

The Advisory Board has approved the following.

- (1) Revision of the policy regarding compulsory class attendance;
- (2) Extending the student library hours;
- (3) In principle, the five day week for students;
- (4) The policy for selected senior students to live out of residence on an allowance;
- (5) A concurrent program of Obstetrical Nursing, Paediatric Nursing, and Psychiatric Nursing;
- (6) An affiliation program for students from The Archer Memorial Hospital, Lamont, in Obstetrical Nursing.
- (7) Accepted recommendations to,
 - (a) Reduce the affiliation in Tuberculosis;
 - (b) Reduce the Diet Kitchen experience from four weeks to two weeks.

The Student Health Service reports

	1963	1964
Students on sick parade -----	1,727	1,946
Number of hospitalized days -----	699	515
Number of days lost due to illness ----	1,235	1,000
Total number of days lost -----	1,934	1,515

The Nurses' Residence

Mrs. J. E. Kirk, Supervisor of the Residence for the past seven years, resigned in July. Mrs. H. L. Wright joined the Residence staff as supervisor in August.

Locks have been installed on all bedroom doors.

DEPARTMENT OF PHARMACY

Statistics	1961	1962	1963	1964
Cost of Drugs -----	\$182,708	\$144,529	\$158,694	\$193,451
Stock Inventory -----	93,538	91,394	85,587	81,881
Prescriptions:				
—Total -----	132,244	166,683	189,498	213,670
—Daily Average -----	570	815	970	1,223

Drug Costs by Area				
Operating Rooms -----	\$ 33,809	\$ 41,302	\$ 45,670	\$ 55,952
Laboratories -----	22,360	21,654	20,001	31,390
Out-patient Department -----	27,600	35,008	34,649	45,929
Emergency -----	6,984	6,567	8,604	10,316



W. W. MADAY, B.Sc.
*Director of
Pharmaceutical Services*

WOMEN'S AUXILIARY

The University Hospital Women's Auxiliary has a membership of 88 and our aim is to provide volunteer services in the hospital. During 1964, 332 volunteers worked 12,761 hours on 12 programs. These include admitting office, baby pictures, driving, flower booth, gift cart, library, outpatient clinic, pediatrics, polio, Red Cross sewing room and x-ray escort service.

Candy Strippers appeared on November 1st. This teen-age volunteer group wear a distinctive red and white striped uniform. In order to qualify a Candy Striper must put in 10 volunteer hours and be over the age of 16.

Our programs are under the direction of Mrs. Jeanne Rymal, our Volunteer Service Director.

We have 3 money raising projects in the hospital. Baby pictures which realized \$1,180.18, the Flower booth \$1,649.00 since it started in October, 1963 and the Gift Cart approximately \$100.00 a month.

From the Charity Ball we added \$1,875.00 to our bank account.



MRS. R. S. FRASER

DEPARTMENT OF DIETETIC SERVICES

Comparative Meal Counts, Food Costs 1962—1964

MEAL DAY COUNT	1962	1963	1964
Staff -----	175,150	183,433	200,961
Patients -----	328,562	320,556	314,121
TOTAL MEAL DAYS -----	503,712	503,989	515,082
RAW FOOD COST -----	\$466,488.06	\$473,372.84	\$487,327.31
AVERAGE RAW FOOD COST PER MEAL DAY ----	92.61¢	93.94¢	94.61¢

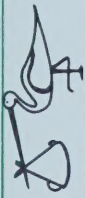
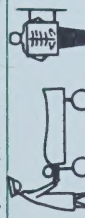
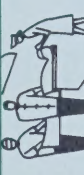
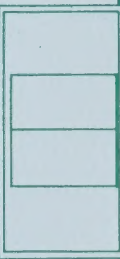


MISS I. TORRINGTON
Director of Dietetics

COMPARATIVE STATISTICAL REVIEW 1963 - 1964

	1963	1964
ADMISSIONS		
Total -----	22,934	23,880
Private -----	519	483
Semi-private -----	3,283	3,230
Standard -----	13,376	14,548
Out-patient Department -----	1,743	1,682
Department Veterans' Affairs -----	584	470
Staff -----	91	107
Others -----	3,338	3,360
Maximum in Hospital any one day -----	1,084	1,009
Minimum in Hospital any one day -----	642	625
Minimum of patients at beginning of year -----	747	732
Total number of patients deceased during year -----	592	621
Total number of patients at end of year -----	732	758
Total number of patient days -----	347,919	341,895
Daily Average number of patients -----	953	934
Average stay of patients (in-days) -----	14.69	14.8
BY DEPARTMENT		
Medical -----	4,992	5,103
Surgical -----	3,740	3,963
Obstetrical -----	2,559	2,412
Gynaecological -----	1,892	2,017
E.E.N. & T. -----	1,933	2,166
Orthopaedic -----	1,691	1,914
Dermatology -----	128	102
Neuro-surgery -----	655	747
Paediatrics -----	1,459	1,355
Metabolic -----	196	241
Urology -----	1,101	1,274
Newborn -----	2,337	2,273
Others -----		313
X-RAY DEPARTMENT		
Radiographs (examinations) -----	47,840	52,714
Fluoroscopies -----	4,867	4,717
X-Ray Treatments -----	2,244	1,726
LABORATORY DEPARTMENT		
Examinations -----	421,467	488,922
E.C.G.'s -----	8,427	9,491
OPERATIONS		
Operating Rooms -----	10,306	11,208
Cystoscopy Department -----	3,479	5,472
Total -----	13,785	16,680
OUT-PATIENT SERVICES		
Total Visits -----	144,671	155,989

A TYPICAL DAY IN THE HOSPITAL
AVERAGE DAILY OCCUPANCY—953 PATIENTS

7	DELIVERIES		PROVINCIAL LABORATORY TESTS (UNITS)	1,385
211	X-RAY EXAMINATIONS		HOSPITAL LABORATORY TESTS (UNITS)	2,933
359	REHABILITATION TREATMENTS		BLOOD TRANSFUSIONS	24
97	EMERGENCY PATIENTS		X-RAY FILMS	810
1,223	PHARMACY SERVICES		ANAESTHETICS	45
43,771	CU. FT. OF WATER		MEALS SERVED COST OF FOOD	4,233 \$1,335
510,658	LBS. OF STEAM		ELECTRIC KW HOURS	26,495
57	OPERATIONS		CENTRAL SUPPLY SERVICES	9,060
1,675 EMPLOYEES 476 STUDENTS 159 MEDICAL STAFF	TOTAL PERSONNEL 2,310		LBS. OF LAUNDRY PROCESSED PER PATIENT	18,149 13.98
UNIVERSITY OF ALBERTA HOSPITAL				629 OUT-PATIENT VISITS
62.8 ADMISSIONS				62.9 DISCHARGES

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